

AMENDMENTS TO THE CLAIMS:

Sub 57

1. (Previously Presented) A liquid crystal display device comprising:
a display section which uses liquid crystal with a memory effect;
a driving section which drives the display section;
a control section which controls the driving section to write currently displayed information on the display section again at a specified time; and
a timer which begins counting when information displayed on the display section is updated;

C1 cont

wherein the control section causes the driving section to rewrite currently displayed information on the display section upon the timer counting to a predetermined value and the control section causes the display section to be reset before the driving section rewrites currently displayed information upon the timer counting to a predetermined value.

2. (Previously Presented) A liquid crystal display device according to claim 1, wherein the liquid crystal is chiral nematic liquid crystal which exhibits a cholesteric phase.

3. (Previously Presented) A liquid crystal display device according to claim 1, wherein:

the display section has a detecting section which detects a contact action with a screen of the display section; and

the control section controls the driving section to write currently displayed information on the display section again when a contact action is detected by the detecting section.

4. (Previously Presented) A liquid crystal display device according to claim 3, wherein the detecting section is a touch sensor.

5. (Cancelled).

6. (Previously Presented) A liquid crystal display device according to claim 1, wherein the control section controls the driving section to perform writing on part of the display section and thereafter to write currently displayed information on the display section again.

7. (Previously Presented) A liquid crystal display device according to claim 1, further comprising an electric power source.

8. (Previously Presented) A liquid crystal display device according to claim 7, further comprising a terminal through which electricity is charged in a battery from an external device.

9. (Previously Presented) A liquid crystal display device according to claim 8, wherein the external device is a refrigerator.

10. (Previously Presented) A liquid crystal display device according to claim 7, wherein the control section stops supply of electric power to the driving section after writing on the display section.

11. (Previously Presented) A liquid crystal display device according to claim 10, further comprising a booster circuit which raises a voltage supplied from the power source and applies the raised voltage to the driving section;

wherein the control section stops supply of electric power to the driving section by inactivating the booster circuit.

12. (Previously Presented) A liquid crystal display device according to claim 1, which is attachable to and detachable from an external device.

13. (Previously Presented) A liquid crystal display device according to claim 12, wherein the external device is a refrigerator.

14. (Previously Presented) A liquid crystal display device according to claim 1, wherein the information is about at least one of a calendar, a recipe, a message, stock, a picture and data reception from outside.

15. (Previously Presented) A method for driving a liquid crystal display which uses liquid crystal with a memory effect, said method comprising the steps of:

driving the liquid crystal display to write specified information thereon;
initializing a timer when the information on the liquid crystal display is updated;

and

upon the timer reaching a predetermined value, performing the steps of:

resetting the liquid crystal display; and
rewriting the information.

16. (Previously Presented) A liquid crystal display device according to claim 1, wherein the display section is reset by causing each pixel to come to a focal-conic state.

17. (Previously Presented) A liquid crystal display device according to claim 1, wherein the display section is reset by applying a pulse voltage to untwist liquid crystal which exhibits a cholesteric phase to each pixel.

18. (Currently Amended) A liquid crystal display device comprising:
a display section comprising a plurality of stacked layers, each of said layers comprising a first substrate which is a flexible substrate through which a viewer may view currently displayed information, a second substrate, and a liquid crystal material having a memory effect disposed between the first substrate and the second substrate, the plurality of layers being stacked such that the first substrate in a layer is positioned closer to a viewer side than the second substrate of the layer; ~~having a liquid crystal material with a memory effect, the liquid crystal material positioned between a first substrate and a second substrate, the first substrate being a flexible substrate through which a viewer views currently displayed information;~~

a driving section which drives the display section;

Serial No. 09/527,368

a control section which controls the driving section to write currently displayed information on the display section again at a specified time; and

a timer which begins counting when information displayed on the display section is updated;

wherein the control section causes the driving section to rewrite currently displayed information on the display section upon the timer counting to a predetermined value.

19. (Previously Presented) A liquid crystal display device comprising:
a display section which uses liquid crystal with a memory effect;
a driving section which drives the display section;
a control section which controls the driving section to write currently displayed information on the display section again at a specified time; and
a manual operating member operable by a user;
wherein the control section causes the driving section to rewrite currently displayed information on the display section upon operation of the manual operating member.

AI
concl.